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NOTICE OF ALLOWANCE AND FEE(S) DUE

22879

7590

07/28/2009

HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS. CO 80527-2400

EXAMINER				
QUIETT, CARRAMAH J				
ART UNIT	PAPER NUMBER			
2622				

DATE MAILED: 07/28/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/772,165	02/04/2004	Brad R. Larson	200314257-1	5183

TITLE OF INVENTION: DIGITAL CAMERA AND METHOD FOR IN CREATING STILL PANORAMAS AND COMPOSITE PHOTOGRAPHS

APPLN.	TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprov	isional	NO	\$1510	\$300	\$0	\$1810	10/28/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

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If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Note: A certificate of mailing can only be used for domestic mailings of the CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 22879 7590 07/28/2009 Certificate of Mailing or Transmission HEWLETT PACKARD COMPANY I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400 (Depositor's name (Signature (Date APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/772.165 02/04/2004 Brad R. Larson 200314257-1 5183 TITLE OF INVENTION: DIGITAL CAMERA AND METHOD FOR IN CREATING STILL PANORAMAS AND COMPOSITE PHOTOGRAPHS APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1510 \$300 \$0 \$1810 10/28/2009 **EXAMINER** ART UNIT CLASS-SUBCLASS QUIETT, CARRAMAH J 2622 348-208140 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. or agents OR, alternatively, (2) the name of a single firm (having as a member a ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) 4a. The following fee(s) are submitted: 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) lssue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number ______ (enclose an extra copy of this fo Advance Order - # of Copies _ (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ■ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date Typed or printed name Registration No. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400			2622 DATE MAIL ED: 07/28/200	9

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 729 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 729 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/772,165	LARSON, BRAD R.	
Notice of Allowability	Examiner	Art Unit	
	Carramah J. Quiett	2622	
The MAILING DATE of this communication appears All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm GHTS . This application is	in this application. If not included nunication will be mailed in due course. TH I	
2. The allowed claim(s) is/are <u>1-21</u> .			
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Applicati	on No	e
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached EX	AMINER'S AMENDMENT or NOTICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers		w (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date		•	
(b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1	.84(c)) should be written on	the drawings in the front (not the back) of	
each sheet. Replacement sheet(s) should be labeled as such in t 6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MAT	ERIAL must be submitted. Note the	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No 7. ☐ Examiner's 8. ☑ Examiner's 9. ☐ Other	nformal Patent Application Summary (PTO-413), ./Mail Date s Amendment/Comment s Statement of Reasons for Allowance	
	/Lin Ye/ Supervisory Pa	atent Examiner, Art Unit 2622	

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DETAILED ACTION

Response to Amendment

1. The amendment(s), filed on 07/07/2008, have been entered and made of record. Claims 1-21 are pending.

Response to Arguments

2. Applicant's Appeal Brief filed on 03/23/2009, with respect to the rejection(s) of claim(s) 1-21 under Anderson (U.S. Pat. #6,657,667) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn.

Allowable Subject Matter

- 3. **Claims 1-21** are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

Claim 1 is allowed because the prior art does not teach or fairly suggest a digital camera system comprising:

a processing algorithm that runs on the processing circuitry that:

uses video object tracking to track the overlaid indicia that indicate the overlapping area within the second photograph as the overlaid indicia moves over the image displayed on the display as the camera is moved to a position to take the second photograph, which overlaid indicia is used to align and place the second photograph relative to the first photograph, in combination with the other claimed elements.

Claims 2-10 are allowed because claims 2-10 depend from claim 1.

Claim 11 is allowed because the prior art does not teach or fairly suggest a method for use with a digital camera having a lens, an image sensor for sensing an image viewed by the lens,

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a display for displaying the image sensed by the image sensor, a storage device for storing the image sensed by the image sensor, and processing circuitry coupled to the display, lens, image sensor, and storage device, the method comprising the steps of:

using video object tracking to track the overlaid indicia that indicate the overlapping area within the second photograph as the overlaid indicia moves over the image displayed on the display as the camera is moved to a position to take the second photograph, which overlaid indicia is used to align and place the second photograph relative to the first photograph, in combination with the other claimed elements.

Claims 12-18 are allowed because claims 12-18 depend from claim 11.

Claim 19 is allowed because the prior art does not teach or fairly suggest a method for use with a digital camera having a lens, an image sensor for sensing an image viewed by the lens, a display for displaying the image sensed by the image sensor, a storage device for storing the image sensed by the image sensor, a user interface, and processing circuitry coupled to the display, lens, image sensor, and storage device, the method comprising the steps of:

(6) using video object tracking to track the transparent displayed image as the transparent displayed image moves across the display in a direction that is opposite to the direction of the subsequent photograph until the transparent displayed image overlaps a predetermined portion of the subsequent photograph that is to be taken, which overlap is used to align and place the subsequent photograph relative to the photograph, in combination with the other claimed elements.

Claim 20 is allowed because claim 20 depends from claim 1.

Claim 21 is allowed because the prior art does not teach or fairly suggest a digital camera system comprising:

processing means coupled to the display, lens, image sensor, and storage device hat embodies a processing algorithm that:

uses video object tracking to track the overlaid indicia that indicate the overlapping area within the second photograph as the overlaid indicia moves over the image displayed on the display as the camera is moved to a position to take the second photograph, which overlaid indicia is used to align and place the second photograph relative to the first photograph, in combination with the other claimed elements.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Soga et al. (US Pat. 806906) The composition of a photograph to be obtained is decided based upon an assistance frame that can be

moved.

Akasawa et al. (U.S. Pat. #6,867,801) Panoramic image processing which acquires the right

end portion of a first sensed image, displays the acquired image along with the image to be captured.

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Teo (US Pat. 7,292,261) A virtual reality camera that overlays a vertical strip

from a previous frame onto the current field of view

seen on a display.

Stavely et al. (US Pat. 7,349,020) Displaying image composition templates with preview

images.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carramah J. Quiett whose telephone number is (571)272-7316. The examiner can normally be reached on 8:00-5:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Ometz can be reached on (571) 272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Lin Ye/ Supervisory Patent Examiner, Art Unit 2622

/C. J. Q./ Examiner, Art Unit 2622 July 2, 2009